



# **STIC Search Report**

## **EIC 2800**

**STIC Database Tracking Number: 151701**

**TO: Ashok Patel  
Location: JEF-3D29  
Art Unit : 2879  
Tuesday, April 26, 2005**

**Case Serial Number: 10/053525**

**From: Darcy Bates  
Location: EIC 2800  
JEF- 4B68  
Phone: 571-272-2540**

**darcy.bates@uspto.gov**

### **Search Notes**

**Re: 10/053,525 US 5,986,400**

**Attached are search results.**

**No U. S. litigation was found in searches of  
Lexis-Nexis and Questel-Orbit databases.**

**If more searching or explanation is needed, please let  
me know.**

**Thanks,  
Darcy Bates**

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Patent Search - Number: 5,705,888



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Patent Search - Number: 5,986,400



No cases containing this patent number were found.

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Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility Patents](#) Terms: **patno=5986400** ([Edit Search](#))*891611 (08) 5986400 November 16, 1999*

## UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

**5986400**♦ [GET 1st DRAWING SHEET OF 2](#)[Access PDF of Official Patent \\*](#)[Check for Patent Family Report PDF availability \\*](#)

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[Link to Claims Section](#)

November 16, 1999

Electroluminescent device comprising a transparent structured electrode layer made from a conductive polymer

**REISSUE:** November 13, 2001 - Reissue Application filed Ex. Gp.: 2879; Re. S.N. 10/053,525 (O.G. August 6, 2002)

**INVENTOR:** Staring, Aemilianus G. J. - Eindhoven, Netherlands (NL); Braun, David B. - Eindhoven, Netherlands (NL)

**APPL-NO:** 891611 (08)

**FILED-DATE:** July 11, 1997

**GRANTED-DATE:** November 16, 1999

**ASSIGNEE-AT-ISSUE:** U Philips Corporation, New York, New York, United States (US), 02

**LEGAL-REP:** Spain, Norman N.

**PUB-TYPE:** November 16, 1999 - Utility Patent having no previously published pre-grant publication (A)

**PUB-COUNTRY:** United States (US)

**REL-DATA:**

Division of Ser. No. 08/523837, September 6, 1995, GRANTED 5705888

**US-MAIN-CL:** 313#503

**US-ADDL-CL:** 313#504, 313#505

**CL:** 313

**SEARCH-FLD:** 313#498, 313#503, 313#504, 313#505

**IPC-MAIN-CL:** 6H 05B033#2


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[Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility Patents](#)

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☒ Terms and Connectors ☐ Natural Language

patno=5986400

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## Search Connectors

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### Syntax Definition

<u>and</u>	and
<u>or</u>	or
<u>w/N</u>	within N words
<u>not w/N</u>	not within N words
<u>pre /N</u>	precedes by N words
<u>w/p</u>	in same paragraph
<u>not w/p</u>	not in same paragraph
<u>w/seg</u>	in same segment
<u>not w/seg</u>	not in same segment
<u>w/s</u>	in same sentence
<u>not w/s</u>	not in same sentence
<u>and not</u>	and not

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Query/Command : file pluspat

Selected file: PLUSPAT

Search statement 1

Query/Command : us5986400/pn

\*\* SS 1: Results 1

Search statement 2

Query/Command : prt fu legalall max

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image  
PN - US5986400 A 19991116 [US5986400]  
TI - (A) Electroluminescent device comprising a transparent structured  
electrode layer made from a conductive polymer  
PA - (A) PHILIPS CORP (US)  
PAO - U.S. Philips Corporation, New York NY [US]  
IN - (A) BRAUN DAVID B (NL); STARING AEMILIANUS G J (NL)  
AP - US89161197 19970711 [1997US-0891611]  
FD - Divsn of US523837 19950906 [1995US-0523837]  
Division of: US5705888  
PR - US89161197 19970711 [1997US-0891611]  
EP94202543 19940906 [1994EP-0202543]  
US52383795 19950906 [1995US-0523837]  
IC - (A) H05B-033/02  
EC - H01L-027/32M2  
H01L-051/50E  
H01L-051/52B2  
ICO - T01L-051/30D2B2  
PCL - ORIGINAL (O) : 313503000; CROSS-REFERENCE (X) : 313504000  
313505000  
DT - Corresponding document  
CT - EP615257  
J. C. Guatafason et al, "In situ spectroscopic investigations of  
electrocromics and ion tranport in a poly  
(3,4-athylenedioxythiphen) electrode in a solid state  
electrochemical cell", Solid State Ionics, 1994, pp. 145-152.  
  
G. Gustafsson et al, "Flexible light-emitting diodes made from  
soluble conducting polymers", Nature, vol. 357, Jun. 11, 1992, pp.  
477-479.  
  
D. Braun, et al, "Photo and electroluminescence efficiency in  
poly(dialkoxy-p-phenylenemylene)", Synthetic Metals, 1994, pp.  
75-79.  
  
E. Staring et al, Photo and Electroluminscence Efficiency in  
Soluble Poly(dialkyl-p-phenylenemylene), Adanced Materials,  
1994, 6 No. 12, pp. 934-937.  
STG - (A) United States patent  
AB - A description is given of an electroluminescent (EL) device (1)  
composed of polymeric LEDs comprising an active layer (7) of a  
conjugated polymer and a transparent polymeric electrode layer (5)  
having electroconductive areas (51) as electrodes. Like the  
active layer (7), the electrode layer (5) can be manufactured in a

simple manner by spin coating. The electrode layer (5) is structured into conductive electrodes (51) by exposure to UV light. The electrodes (9) and (51) jointly form a matrix of LEDs for a display. When a flexible substrate (3) is used, a very bendable EL device is obtained.

1 / 1 LGST - ©EPO  
 PN - US5986400 A 19991116 [US5986400]  
 AP - US89161197 19970711 [1997US-0891611]  
 ACT - 20020806 US/RF-A  
 REISSUE APPLICATION FILED  
 EFFECTIVE DATE: 20011113  
 UP - 2003-22

1 / 1 CRXX - ©CLAIMS/RRX  
 AN - 3237695  
 PN - 5,986,400 A 19991116 [US5986400]  
 PA - U S Philips Corp  
 PT - CE (Chemical Electrical)  
 ACT - 20011113 REISSUE REQUESTED  
 ISSUE DATE OF O.G.: 20020806  
 REISSUE REQUEST NUMBER: 10/053525  
 EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2879

Reissue Patent Number:

UP - 2002-32  
 UACT- 2002-08-06

Search statement 2

Query/Command : fam us5986400/pn

1 Patent Groups  
 \*\* SS 2: Results 8

Search statement 3

Query/Command : famstate nonstop

1 / 8 PLUSPAT - ©QUESTEL-ORBIT  
 PN - DE69529512 D1 20030306 [DE69529512]  
 STG - (D1) Granted EP number in bulletin  
 OTI - (D1) Elektrolumineszente Vorrichtung mit einer  
 3,4-Ethylen-Dioxythiophen-Schicht  
 PA - (D1) KONINKL PHILIPS ELECTRONICS NV (NL)  
 IN - (D1) BRAUN DAVID (NL); STARING GRADUS (NL)  
 IC - (D1) H01L-051/10 H01L-051/40

Poly-

PN2 - DE69529512 T2 20031113 [DE69529512]  
 STG2- (T2) Trans. Of EP patent  
 OTI2- (T2) Elektrolumineszente Vorrichtung mit einer Poly-  
 3,4-Ethylen-Dioxythiophen-Schicht  
 PA2 - (T2) KONINKL PHILIPS ELECTRONICS NV (NL)  
 IN2 - (T2) BRAUN DAVID (NL); STARING GRADUS (NL)  
 IC2 - (T2) H01L-051/10 H01L-051/40  
 AP - DE69529512 19950828 [1995DE-6029512]  
 PR - EP94202543 19940906 [1994EP-0202543]  
 WOIB9500701 19950828 [1995WO-IB00701]  
 UP - 2003-10

1 / 1 LEGALI - ©EPO

PN - DE69529512 D1 20030306 [DE69529512]DE69529512 T2 20031113  
 [DE69529512]  
 AP - DE69529512 19950828 [1995DE-6029512]  
 ACTE- 20040129 DE/8363-A [-]  
 OPPOSITION AGAINST THE PATENT  
 UP - 2004-05

2 / 8 PLUSPAT - ©QUESTEL-ORBIT

PN - EP0727100 A1 19960821 [EP-727100]  
 STG - (A1) Public. Of applic. With search report  
 TI - (A1) ELECTROLUMINESCENT DEVICE COMPRISING A TRANSPARENT STRUCTURED  
 ELECTRODE LAYER MADE FROM A CONDUCTIVE POLYMER  
 OTI - (A1) ELEKTROLUMINESZENTE VORRICHTUNG MIT EINER TRANSPARENTEN  
 STRUKTURIERTEN ELEKTRODE-SCHICHT AUS LEITFÄHIGEM POLYMER  
 (A1) DISPOSITIF ELECTROLUMINESCENT COMPRENANT UNE COUCHE A  
 ELECTRODES STRUCTUREE TRANSPARENTE CONSTITUEE D'UN POLYMERE  
 CONDUCTEUR  
 PA - (A1) PHILIPS ELECTRONICS NV (NL)  
 IN - (A1) BRAUN DAVID (NL); STARING AEMILIANUS GRADUS JOHA (NL)  
 IC - (A1) H01L-051/10 H01L-051/40  
 PN2 - EP0727100 B1 20030129 [EP-727100]  
 STG2- (B1) Patent  
 TI2 - (B1) Electroluminescent device comprising a  
 poly-3,4-dioxythiophene layer  
 OTI2- (B1) Elektrolumineszente Vorrichtung mit einer Poly-  
 3,4-Ethylen-Dioxythiophen-Schicht  
 (B1) Dispositif electroluminescant comprenant une couche de  
 poly-3,4-dioxythiophène  
 PA2 - (B1) KONINKL PHILIPS ELECTRONICS NV (NL)  
 IN2 - (B1) BRAUN DAVID (NL); STARING AEMILIANUS GRADUS JOHA (NL)  
 IC2 - (B1) H01L-051/10 H01L-051/40  
 LA - ENGLISH (ENG)  
 AP - EP95927926 19950828 [1995EP-0927926]  
 PR - EP95927926 19950828 [1995EP-0927926]  
 EP94202543 19940906 [1994EP-0202543]  
 WOIB9500701 19950828 [1995WO-IB00701]  
 DS - DE ES FR GB IT NL

1 / 1 LEGALI - ©EPO

PN - EP0727100 A1 19960821 [EP-727100]EP0727100 B1 20030129 [EP-727100]  
 AP - EP95927926 19950828 [1995EP-0927926]  
 ACTE- 19960821 EP/AK-A [+]  
 DESIGNATED CONTRACTING STATES:  
 DE ES FR GB IT NL



19961113 EP/17P-A [+]  
REQUEST FOR EXAMINATION FILED  
EFFECTIVE DATE: 19960916

19980826 EP/RAP3-A  
APPLICANT CHANGE OF NAME (CORRECTION)  
OWNER: KONINKLIJKE PHILIPS ELECTRONICS N.V.

20010711 EP/17Q-A [+]  
FIRST EXAMINATION REPORT  
EFFECTIVE DATE: 20010525

20020522 EP/RT11-A  
TITLE (CORRECTION)  
ELECTROLUMINESCENT DEVICE COMPRISING A POLY-3,4-DIOXYTHIOPHENE  
LAYER

20030129 EP/AK-A [+]  
DESIGNATED CONTRACTING STATES:  
DE ES FR GB IT NL

20030129 EP/REG-A; GB/FG4D [+]  
GB: EUROPEAN PATENT GRANTED  
<GB>

20030306 EP/REF-A  
CORRESPONDS TO:  
(DE 69529512 20030306 [DE69529512])

20030326 EP/REG-A; GB/746  
GB: REGISTER NOTED 'LICENCES OF RIGHT' (SECT. 46/1977)  
<GB>  
EFFECTIVE DATE: 20030305

20030815 EP/ET-A [+]  
FR: TRANSLATION FILED

20030901 EP/REG-A; ES/FG2A  
ES: DEFINITIVE PROTECTION  
(ES 2191057T3 [ES2191057])

20031010 EP/REG-A; FR/D6  
FR: ADMISSION TO LICENCES OF RIGHT  
<FR>

20031217 EP/26-A [-]  
OPPOSITION FILED  
OPPONENT: H.C. STARCK GMBH & CO. KG; EFFECTIVE DATE: 20031016

20040202 EP/NLR1-A [-]  
NL: OPPOSITION HAS BEEN FILED WITH THE EPO  
OPPONENT: H.C. STARCK GMBH & CO. KG

UP - 2004-06

3 / 8 PLUSPAT - @QUESTEL-ORBIT - image  
PN - EP1271669 A2 20030102 [EP1271669]  
STG - (A2) Pub. Of applic. Without search report  
TI - (A2) Electroluminescent device comprising a transparent structured  
electrode layer made from a conductive polymer  
OTI - (A2) Elektrolumineszente Vorrichtung mit einer strukturierten

transparenten Elektrodenschicht aus leitfähigem Polymer  
 (A2) Dispositif électroluminescent comprenant une couche à électrodes structurée transparente constituée d'un polymère conducteur

PA - (A2) KONINKL PHILIPS ELECTRONICS NV (NL)  
 IN - (A2) BRAUN DAVID (NL); STARING AEMILIANUS G J (NL)  
 IC - (A2) H01L-027/00 H01L-051/20  
 PN2 - EP1271669 A3 20050126 [EP1271669]  
 STG2- (A3) Publi. Of search report  
 TI2 - (A3) Electroluminescent device comprising a transparent structured electrode layer made from a conductive polymer  
 OTI2- (A3) Elektrolumineszente Vorrichtung mit einer strukturierten transparenten Elektrodenschicht aus leitfähigem Polymer  
 (A3) Dispositif électroluminescent comprenant une couche à électrodes structurée transparente constituée d'un polymère conducteur

PA2 - (A3) KONINKL PHILIPS ELECTRONICS NV (NL)  
 IN2 - (A3) BRAUN DAVID (NL); STARING AEMILIANUS G J (NL)  
 IC2 - (A3) H01L-027/00 H01L-051/20  
 LA - ENGLISH (ENG)  
 AP - EP02078449 19950828 [2002EP-0078449]  
 PR - EP02078449 19950828 [2002EP-0078449]  
 EP95927926 19950828 [1995EP-0927926]  
 EP94202543 19940906 [1994EP-0202543]  
 EC - H01L-027/32M2  
 H01L-051/50E  
 H01L-051/52B2  
 ICO - T01L-051/30D2B2  
 DS - DE ES FR GB IT NL  
 DT - Basic  
 UP - 2003-01

1 / 1 LEGALI - ©EPO  
 PN - EP1271669 A2 20030102 [EP1271669]  
 AP - EP02078449 19950828 [2002EP-0078449]  
 ACTE- 20030102 EP/AC-A  
 DIVISIONAL APPLICATION (ART. 76) OF:  
 (EP 727100 [EP-727100])

20030102 EP/AK-A [+]  
 DESIGNATED CONTRACTING STATES:  
 DE ES FR GB IT NL

20050126 EP/AK-A  
 DE ES FR GB IT NL  
 UP - 2005-04

4 / 8 PLUSPAT - ©QUESTEL-ORBIT  
 PN - ES2191057 T3 20030901 [ES2191057]  
 STG - (T3) Transl. Compl. Txt. Of grted Eur. Pat.  
 OTI - (T3) DISPOSITIVO ELECTROLUMINISCENTE QUE COMPRENDE UNA CAPA DE POLI-3,4-DIOXITIOFENO.  
 PA - (T3) KONINKL PHILIPS ELECTRONICS NV  
 IN - (T3) BRAUN DAVID (NL); STARING AEMILIANUS GRADUS JOHA (NL)  
 IC - (T3) H01L-051/10 H01L-051/40  
 AP - ES95927926T 19950828 [1995ES-0927926]  
 PR - EP94202543 19940906 [1994EP-0202543]  
 UP - 2003-40

## 5 / 8 PLUSPAT - @QUESTEL-ORBIT

PN - JP2001506393 T 20010515 [JP2001506393]  
STG - (T) Unexam. Pat. Appl. On foreign appl.  
IC - (T) C09K-011/06 H05B-033/10 H05B-033/28  
AP - JP50934496T 19950828 [1996JP-0509344]  
PR - EP94202543 19940906 [1994EP-0202543]  
WOIB9500701 19950828 [1995WO-IB00701]  
UP - 2001-37

## 6 / 8 PLUSPAT - @QUESTEL-ORBIT - image

PN - US5705888 A 19980106 [US5705888]  
STG - (A) United States patent  
TI - (A) Electroluminescent device comprising a transparent structured  
electrode layer made from a conductive polymer  
PA - (A) PHILIPS CORP (US)  
PAO - U.S. Philips Corporation, New York NY [US]  
IN - (A) BRAUN DAVID B (NL); STARING AEMILIANUS G J (NL)  
IC - (A) H01L-033/00 H05B-033/02  
AP - US52383795 19950906 [1995US-0523837]  
PR - EP94202543 19940906 [1994EP-0202543]  
EC - H01L-027/32M2  
H01L-051/50E  
H01L-051/52B2  
ICO - T01L-051/30D2B2  
PCL - ORIGINAL (O) : 313503000; CROSS-REFERENCE (X) : 313504000  
313505000  
DT - Corresponding document

## 1 / 1 LEGALI - @EPO

PN - US5705888 A 19980106 [US5705888]  
AP - US52383795 19950906 [1995US-0523837]  
ACTE- 19951115 US/AS02-A  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: U.S. PHILIPS CORPORATION 100 EAST 42ND STREET NEW;  
EFFECTIVE DATE: 19950929  
  
19951115 US/AS02-A  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: STARING, AEMILIANUS G.J.; EFFECTIVE DATE: 19950929  
  
19951115 US/AS02-A  
ASSIGNMENT OF ASSIGNOR'S INTEREST  
OWNER: BRAUS, DAVID B.; EFFECTIVE DATE: 19951002  
UP - 2003-22

## 7 / 8 PLUSPAT - @QUESTEL-ORBIT - image

PN - US5986400 A 19991116 [US5986400]  
STG - (A) United States patent  
TI - (A) Electroluminescent device comprising a transparent structured  
electrode layer made from a conductive polymer  
PA - (A) PHILIPS CORP (US)  
PAO - U.S. Philips Corporation, New York NY [US]  
IN - (A) BRAUN DAVID B (NL); STARING AEMILIANUS G J (NL)  
IC - (A) H05B-033/02

AP - US89161197 19970711 [1997US-0891611]  
PR - US89161197 19970711 [1997US-0891611]  
EP94202543 19940906 [1994EP-0202543]  
US52383795 19950906 [1995US-0523837]  
EC - H01L-027/32M2  
H01L-051/50E  
H01L-051/52B2  
ICO - T01L-051/30D2B2  
PCL - ORIGINAL (O) : 313503000; CROSS-REFERENCE (X) : 313504000  
313505000  
DT - Corresponding document

1 / 1 LEGALI - ©EPO  
PN - US5986400 A 19991116 [US5986400]  
AP - US89161197 19970711 [1997US-0891611]  
ACTE- 20020806 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20011113  
UP - 2003-22

8 / 8 PLUSPAT - ©QUESTEL-ORBIT - image  
PN - WO9608047 A2 19960314 [WO9608047]  
STG - (A2) Publ. Of int. Appl. W/out int. Search rep  
TI - (A2) ELECTROLUMINESCENT DEVICE COMPRISING A TRANSPARENT STRUCTURED  
ELECTRODE LAYER MADE FROM A CONDUCTIVE POLYMER  
OTI - (A2) DISPOSITIF ELECTROLUMINESCENT COMPRENANT UNE COUCHE A  
ELECTRODES STRUCTUREE TRANSPARENTE CONSTITUTE D'UN POLYMER  
CONDUCTEUR  
PA - (A2) PHILIPS ELECTRONICS NV (NL); PHILIPS NORDEN AB (SE)  
PA0 - PHILIPS ELECTRONICS N.V. ; Groenewoudseweg 1 NL-5621 BA Eindhoven (NL)  
PHILIPS NORDEN AB ; Kottbygatan 5, Kista S-164 85 Stockholm (SE)  
(only SE)  
IN - (A2) BRAUN DAVID; STARING AEMILIANUS GRADUS JOHA  
IC - (A2) H01L-051/10 H01L-051/40  
PN2 - WO9608047 A3 19960523 [WO9608047]  
STG2- (A3) Subsqu. Publ. Of int. Search report  
TI2 - (A3) ELECTROLUMINESCENT DEVICE COMPRISING A TRANSPARENT STRUCTURED  
ELECTRODE LAYER MADE FROM A CONDUCTIVE POLYMER  
PA2 - (A3) PHILIPS NORDEN AB (NL); PHILIPS ELECTRONICS NV (NL)  
IN2 - (A3) BRAUN DAVID; STARING AEMILIANUS GRADUS JOHA  
IC2 - (A3) H01L-051/10 H01L-051/40  
LA - ENGLISH (ENG)  
AP - WOIB9500701 19950828 [1995WO-IB00701]  
PR - EP94202543 19940906 [1994EP-0202543]  
EC - H01L-027/32M2  
H01L-051/50E  
H01L-051/52B2  
ICO - T01L-051/30D2B2  
DS - JP; European Patent (AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT;  
LU; MC; NL; PT; SE)  
DT - Basic

1 / 1 LEGALI - ©EPO  
PN - WO9608047 A2 19960314 [WO9608047]WO9608047 A3 19960523 [WO9608047]  
AP - WOIB9500701 19950828 [1995WO-IB00701]  
ACTE- 19960314 WO/AK [+]  
DESIGNATED STATES CITED IN A SUBSEQUENTLY PUBLISHED SEARCH REPORT

JP

19960314 WO/AL [+]  
DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A SUBSEQUENTLY  
PUBLISHED SEARCH REPORT  
AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

19960507 WO/ENP  
ENTRY INTO THE NATIONAL PHASE IN:  
JP 1996 509344A [1996JP-0509344]

19960523 WO/AK [+]  
DESIGNATED STATES CITED IN A SUBSEQUENTLY PUBLISHED SEARCH REPORT  
JP

19960523 WO/AL [+]  
DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A SUBSEQUENTLY  
PUBLISHED SEARCH REPORT  
AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

19960619 WO/121  
EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN  
THIS APPLICATION

UP - 2003-22


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## Search Connectors

Use connectors to show relationships between search terms. (Hover over a connector for description. Click a connector to add to search.)

### Syntax Definition

<a href="#">and</a>	and
<a href="#">or</a>	or
<a href="#">w/N</a>	within N words
<a href="#">not w/N</a>	not within N words
<a href="#">pre /N</a>	precedes by N words
<a href="#">w/p</a>	in same paragraph
<a href="#">not w/p</a>	not in same paragraph
<a href="#">w/seg</a>	in same segment
<a href="#">not w/seg</a>	not in same segment
<a href="#">w/s</a>	in same sentence
<a href="#">not w/s</a>	not in same sentence
<a href="#">and not</a>	and not

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- Use more common search terms. "Suggested Words and Concepts" are displayed on the search form when you click on Edit Search.

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### Enter Search Terms

☒ Terms and Connectors ☐ Natural Language

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